

Wednesday, November 09, 2016

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: NOVEMBER NPDES

Sample ID#s: BV74326

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 09, 2016

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

see "By" below

Sample Information

WASTE WATER **BARNHARD**

Location Code: Rush Request:

Standard

P.O.#:

Matrix:

G8228

Custody Information

Collected by: Received by:

Analyzed by:

KG В

11/02/16 11/02/16

7:00

Time

18:30

Date

aboratory Data

SDG ID: GBV74326

Phoenix ID: BV74326

NOVEMBER NPDES Project ID:

EFFLUENT Client ID:

RL/ Parameter Result **PQL** Units Dilution Date/Time Reference Βy Copper 0.019 0.005 mg/L 1 11/04/16 TH E200.7 B.O.D./5 day 15 2.6 mg/L 6 11/03/16 05:00 KDB/RM SM5210B-01 2 C.O.D. 277 20 mg/L 11/04/16 MSF SM5220D-97 Ammonia as Nitrogen 2.19 0.25 mg/L 5 11/08/16 WHM E350.1 0.084 0.010 1 GD E353.2 Nitrite-N mg/L 11/03/16 18:27 Nitrate-N 1.81 0.02 mg/L 1 11/03/16 18:27 GD E353.2 < 0.015 11/03/16 E420.4 **Phenolics** 0.015 mg/L 1 BS Nitrogen Tot Kjeldahl 14.3 0.50 5 11/08/16 WHM E351.1 mg/L 11/07/16 Phosphorus, as P 4.39 0.10 mg/L 10 JR SM4500PE-99 2 **Total Suspended Solids** 50 10 mg/L 11/04/16 KΗ SM2540D-97 11/03/16 **Total Metals Digestion** Completed AG

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

November 09, 2016

Reviewed and Released by: Deb Lawrie, Project Manager

Ver 1 Page 1 of 1

Page 2 of 6



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 09, 2016

QA/QC Data

SDG I.D.:	GBV74326
-----------	----------

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 365493 (mg/L), QC Sample No: BV74270 (BV74326)														
ICP Metals - Aqueous														
Copper	BRL	0.005	0.005	<0.005	NC	95.8			103			75 - 125	20	



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 09, 2016

QA/QC Data

Sample Dup LCS **LCSD** LCS MS **MSD** MS Rec RPD Dup Blank **RPD RPD** Limits Limits RΙ Result Result **RPD** % % % Parameter % QA/QC Batch 365381 (mg/L), QC Sample No: BV72902 (BV74326) **Phenolics BRL** 0.015 < 0.015 NC 108 99.5 85 - 115 20 QA/QC Batch 365916 (mg/L), QC Sample No: BV73390 (BV74326) Ammonia as Nitrogen BRL 0.05 < 0.05 < 0.05 NC 98.3 98.5 85 - 115 20 BRL Nitrogen Tot Kjeldahl NC 94.0 85 - 115 0.10 0.17 0.17 94.8 20 QA/QC Batch 365569 (mg/L), QC Sample No: BV74166 (BV74326) **Total Suspended Solids BRL** 5.0 < 5.0 <5.0 NC 92.0 85 - 115 20 Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%. QA/QC Batch 365557 (mg/L), QC Sample No: BV74192 (BV74326) C.O.D. 10 97.5 101 <10 85 - 115 20 Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%. QA/QC Batch 365375 (mg/L), QC Sample No: BV74354 (BV74326) BRL 2.0 NC 102 86.8 B.O.D./5 day <40 70 - 130 20 QA/QC Batch 365515 (mg/L), QC Sample No: BV74457 (BV74326) Nitrate-N BRL 0.02 < 0.02 < 0.02 NC 101 101 85 - 115 20 Nitrite-N BRL 0.01 < 0.010 < 0.01 95.2 95.2 85 - 115 20 Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%. QA/QC Batch 365811 (mg/L), QC Sample No: BV74636 (BV74326) Phosphorus, as P 94.7 1.20 111 85 - 115 20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.

MS - Matrix Spike

Comment:

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

SDG I.D.: GBV74326

November 09, 2016

Wednesday, November 09, 2016

Sample Criteria Exceedances Report

GBV74326 - BARNHARD

RLAnalysis SampNo Acode Phoenix Analyte Criteria Result RL Criteria Criteria Units

Criteria: None

State: MA

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Page 1 of 1

^{***} No Data to Display ***

12.	·	†24. 1	•																						
Cooler: Yes No	Temp (° C Pg of	413-624-3471 x 372 x	roject P.O: C-9225	This section MUST be	completed with	+ + + + + + + + + + + + + + + + + + +	140001 2000	Ligo ligo S	10 8 81 80 88 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10			-	مسون						MCP Certification		GW-2 GIS/Key GW-3 EQUIS	S-1 Data Package		MWKA eSMAKI	MIX SURCHARGE APPLIES
	CHAIN OF CUSTODY RECORD	East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	NODES	e1	Brr			1000 1000 1000 1000 1000 1000 1000 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1										Time: RI CT MA	(Residential) GW Protection	C/16 18 50 GW SW Protection G	GB Mobility	Residential DEC	3 Days* Cither Standard	☐ Other • State where samples were collected:
		Environmental Laboratories, Inc.		Address: 70 Box3 247 MAIN (2)	MASS 01340	77 877 11 77 77 77 10	Sampler's Sample - Information - Identification Sampler's Sampler's Signature	ode: king Water GW=Ground Water SW=Surface Water WW=Waste Water Water SE=Sediment SL=Studge S=Soil SD=Solid W=Wipe B=Bulk L=Liquid	PHOENIX USE ONLY Customer Sample Sample Date Time SAMPLE# Identification Matrix Sampled Sampled	Www. 11/2/12 7Am	اعامراء الله	A www walk	んり	A Molle	Effect we "/2/16 7Am	Efficant www 1/2/16 How	Egghant ww 1/2/16 7Am		Relinquished by: Date: Date:	The last of the la	May be	cial Requirements or Regulations:	primerio citacin ex 12 to the TKN	• • • • • • • • • • • • • • • • • • •	- Thomas you